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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/682,959	11/02/2001	Diana D. Brehob	201-0876 AJL	3898	
22844 7:	590 04/30/2002				
FORD GLOBAL TECHNOLOGIES, INC SUITE 600 - PARKLANE TOWERS EAST ONE PARKLANE BLVD.			EXAM	EXAMINER	
			O BRIEN, SEAN D		
DEARBORN, 1	DEARBORN, MI 48126		ART UNIT	PAPER NUMBER	
			3748	2	
				DATE MAILED: 04/30/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Over	09/682,959	BREHOB ET AL.			
Office Action Summary	Examiner	Art Unit			
	Sean D. O'Brien	3748			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing eamed patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be till by within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from a course the application to become ARABONIA	mely filed ys will be considered timely. the mailing date of this communication.			
1) Responsive to communication(s) filed on	·				
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-32</u> is/are pending in the application	1.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-21 and 27-32</u> is/are allowed.					
6)⊠ Claim(s) <u>22, 24 and 26</u> is/are rejected.					
7)⊠ Claim(s) <u>23 and 25</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of: 1. Certified copies of the priority documents					
=					
2. Certified copies of the priority documents					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic		1			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

6) Other:

4) Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Specification

1. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

2. The abstract of the disclosure is objected to because it does not meet the criteria recited above. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 22, 24, and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 5,669,341 to Ushirono et al.

- 5. Regarding claim 22: Ushinrono discloses a method for actuating an intake valve, actuating the valve according to a second mode (after starting, column 1, lines 58-60), comprising the steps of de-energizing the valve closing electromagnet and energizing the valve-opening electromagnet to open the valve and reversing the process to close the valve (column 2, lines 9-17) after a predetermined time (based on combustion cycle).
- 6. Regarding claim 24: Ushirono discloses a first set of operating conditions indicating a lower flow rate of air (column 6, lines 45-46, low engine speed implies low air flow).
- 7. Regarding claim 26: Ushirono discloses a first set of operating conditions indicated by lower engine speed (column 6, lines 45-46).

Allowable Subject Matter

- 8. Claims 23 and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Claims 1-21 and 27-32 are allowed.
- 10. The claimed combination of an electromagnetic engine valve actuation and a method comprising the steps of maintaining the valve closing electromagnet in a de-energized state for a predetermined time enabling the valve to freely oscillate by the force of the valve opening spring and valve closing spring, and energizing the valve closing electromagnet after said predetermined time to close the valve is not disclosed nor rendered obvious over the art of record.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean D. O'Brien whose telephone number is 703-306-3476. The examiner can normally be reached on M-Th 7:30-5:00, 2nd Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom E. Denion can be reached on 703-308-2326. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0861.

Sean O'Brien, Patent Examiner

April 29, 2002

THOMAS DENION SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700